Aviation Week & Space Technology

October 22, 1962

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EDITORIAL

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By Evert Clark

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* Acrober #11, bunched by Goddard

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Major Space Science Experiments

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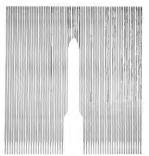
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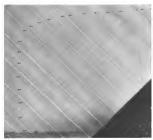


GE Studies Large Space Power Systems

By Deeld A. Anderton

This work typifes the high degree of GE's progress as banded to part by

a understant drame, and for beyond





Intelligency a consisting time unseemboar flight in an 900 tool efficient features, we returned amount to instance. It is a consistent of the control of the





The Bell X-14A is the only two-place jet VTOL preture-place jet VTOL preently being flown naywhere in the weld. This after-six has been in active dight testing for over five years... is still in opention as NASA's Area Research Control Ventions of this place are ready for use as VTOL field trainers or as limited warriare close



This sixcest is based on the original X-14 machine and uses three engines with threat divertors. The increased

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and at part in horsewal plant. Elements

General interferometer away. This re-Technique provides the same type of

SYSTEM EXPERIENCE ENEDGY SOURCES CONVERSION

ITEM: The turboalternator unit (CRII) has successfully completed a continuous endurance run of 2,350 hours, Upon disassembly and inspection, no bearing wear was evident. Sunflower is under contract with

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Sunfower Spice Power System: A marrowy mixed Familie



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SUBTRACTION

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al, reliable fast delivery and meter-Deleves experiences your accurance

technical needs, top quality equipment, fact delivery and reasonable DELAVAN



The new significance of the Northern Lights

When the Arctic skies are ablaze with the aurora corealis, scientists know that a solar storm has hurled dangerous, high-energy particles deep into space. Today the Northern Lights have an ominous new significance: the particles that cause them might be fatal to astronauts. Our scientists are working with the University of Alaska and the Air Force in a Navy-sponsored study of the Neethern Liebts to measure solar particles that dispost communications and threaten space travelers. The problem of Man in Space new occupies many of our 3300-man research and engineering staff: how to propel him around the solar system. how to communicate with him on route... how to keep him healthy and happy and well fed Broad scientific capabilities, backed by skilled management and modern facilities, enable us to undertake the nation's most difficult military and civilian space assignments.

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AFRONAUTICAL ENGINEERING



Hawker P.1127 VTOL Details Are Shown

Bester P.1527 VTCE, stelle Seller on stelle dealer





PRODUCTION BRIEFING

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Curtiss Division Curtiss-Wright Corporation Chickett M New Jacony

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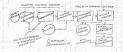
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How the Phantom Records What the Radar Sees

Early in the development of the Phantom II. McDonnell designed a Direct Radar Scope Camera (DRSC)* as part of the instrumentation necessary for armament control system evaluation. It was soon apparent that the low cost, low volume, reliability, simplicity, inflight reloading, recording capabilities and projector playback characteristics of this device made it ideal for crew training and evaluation. At the request of the U.S. Navv. McDonnell put the system into production and it is now standard equipment on Phantoms being delivered to the fleet. More recently, the McDonnell Direct Radar Scope Camera was specified for the F8U-2N and the F-110.

The system includes a McDonnell developed KD-26A camera, periscope, and electronic control assembly. Mirrors and prisms are used to shape the periscope to installation requirements. A unique application of an optical principle eliminates glare

and double images while allowing the observer to change scope intensity without reducing photographic quality.

The KD-26A is a pulse operated 16 millimeter camera using standard 50 foot film magazine for inflight reloading. During radar search, the shutter is triggered at the end of each azimuth sweep. During tracking, the camera is pulse operated at 2-6 frames per second. Correlator lights are introduced to mark such events as lock-on, firing, snap-up and other incidents where a record is desired. The film can be quickly developed and projected for crew training and evaluation, maintenance trouble shooting or mission documentation.

The McDonnell DRSC is presently being proposed for a number of all weather fighter aircraft in addition to applications such as sonar, air traffic control, weather and navigational radar recording.

*Patent Applied For

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